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13281 U.S. PTO  
031604UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. 19111.0131

First Inventor Qingyun XIE

Title GEORASTER PHYSICAL DATA MODEL FOR  
STORING GEOREFERENCED RASTER DATA

Express Mail Label No.

U.S. PTO  
10/800/39

031604

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)

2.  Applicant claims small entity status.  
See 37 CFR 1.27.

3.  Specification [Total Pages 64]  
(preferred arrangement set forth below)  
- Descriptive title of the Invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table,  
or a computer program listing appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure

4.  Drawing(s) (35 U.S.C. 113) [Total Sheets 10]

5. Oath or Declaration [Total Sheets 2]  
a.  Newly executed (original or copy)  
b.  Copy from a prior application (37 CFR 1.63 (d))  
(for a continuation/divisional with Box 18 completed)  
i.  DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).

6.  Application Data Sheet. See 37 CFR 1.76

## ADDRESS TO:

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

7.  CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)  
a.  Computer Readable Form (CRF)  
b. Specification Sequence Listing on:  
i.  CD-ROM or CD-R (2 copies); or  
ii.  Paper  
c.  Statements verifying identity of above copies

## ACCOMPANYING APPLICATIONS PARTS

9.  Assignment Papers (cover sheet & document(s))

10.  37 C.F.R. 3.73(b) Statement  Power of  
(when there is an assignee) Attorney

11.  English Translation Document (if applicable)

12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS  
Citations

13.  Preliminary Amendment

14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)

15.  Certified Copy of Priority Document(s)  
(if foreign priority is claimed)

16.  Nonpublication Request under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.

17.  Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,  
or in an Application Data Sheet under 37 CFR 1.76: Continuation  Divisional  Continuation-in-part (CIP)

of prior application No: \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b,  
is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only  
be relied upon when a portion has been inadvertently omitted from the submitted application parts.

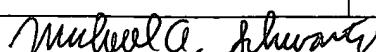
## 19. CORRESPONDENCE ADDRESS

 Customer Number

23517

OR  Correspondence address below

Name	Edward A. Pennington, Reg. No. 32,588 Swidler Berlin Shreff Friedman, LLP				
Address	3000 K Street, NW Suite 300				
City	Washington	State	D.C.	Zip Code	20007-5116
Country	US	Telephone	202-424-7500	Fax	202-295-8478

Name (Print/Type)	Michael A. Schwartz		Registration No. (Attorney/Agent)	40,161
Signature			Date	March 16, 2004

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 1110)

Complete If Known	
Application Number	TBD
Filing Date	March 16, 2004
First Named Inventor	Qingyun XIE
Examiner Name	TBD
Art Unit	TBD
Attorney Docket No.	19111.0131

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money  Other  None  
Order
 Deposit Account:

Deposit Account Number 19-5127

Deposit Account Name Swidler Berlin Shreff Friedman, LLP

## The Director is authorized to: (check all that apply)

 Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code	Fee Code	Fee (\$)	Fee (\$)
1001	2001	770 385	Utility filing fee 750
1002	2002	340 170	Design filing fee
1003	2003	530 265	Plant filing fee
1004	2004	770 385	Reissue filing fee
1005	2005	160 80	Provisional filing fee
SUBTOTAL (1)			(\$ 750)

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims	Fee from below	Fee Paid
Total Claims	40	-20 **	= 20	X 18 = 360
Independent Claims	2	-3 **	= 0	X = 0
Multiple Dependent			X	= 0

Large Entity	Small Entity	Fee Description
Fee Code	Fee Code	Fee (\$)
1202	2202	18 9
1201	2201	86 43
1203	2203	290 145
1204	2204	86 43
1205	2205	18 9
SUBTOTAL (2)		(\$ 360)

\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code	Fee Code	Fee (\$)	Fee (\$)
1051	2051	130 65	Surcharge - late filing fee or oath
1052	2052	50 25	Surcharge - late provisional filing fee or cover sheet.
1053	1053	130 130	Non-English specification
1812	1812	2,520 2,520	For filing a request for reexamination
1804	1804	920* 920*	Requesting publication of SIR prior to Examiner action
1805	1805	1,840* 1,840*	Requesting publication of SIR after Examiner action
1251	2251	110 55	Extension for reply within first month
1252	2252	420 210	Extension for reply within second month
1253	2253	950 475	Extension for reply within third month
1254	2254	1,480 740	Extension for reply within fourth month
1255	2255	2,010 1,005	Extension for reply within fifth month
1401	2401	330 165	Notice of Appeal
1402	2402	330 165	Filing a brief in support of an appeal
1403	2403	290 145	Request for oral hearing
1451	1451	1,510 1,510	Petition to institute a public use proceeding
1452	2452	110 55	Petition to revive - unavoidable
1453	2453	1,330 665	Petition to revive - unintentional
1501	2501	1,330 665	Utility issue fee (or reissue)
1502	2502	480 240	Design issue fee
1503	2503	640 320	Plant issue fee
1460	1460	130 130	Petitions to the Commissioner
1807	1807	50 50	Processing fee under 37 CFR 1.17 (q)
1806	1806	180 180	Submission of Information Disclosure Stmt
8021	8021	40 40	Recording each patent assignment per property (times number of properties)
1809	2809	770 385	Filing a submission after final rejection (37 CFR § 1.129(a))
1810	2810	770 385	For each additional invention to be examined (37 CFR § 1.129(b))
1801	2801	770 385	Request for Continued Examination (RCE)
1802	1802	900 900	Request for expedited examination of a design application

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0)

## SUBMITTED BY

Name (Print/Type)	Michael A. Schwartz	Registration No. (Attorney/Agent)	40,161	Telephone	202/424-7500	Complete (if applicable)
Signature	<i>Michael A. Schwartz</i>			Date	March 16, 2004	

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